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\$/138/60/000/009/002/012 A051/A029

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AUTHORS:

Poddubnyy, I.Ya.; Kartsev, V.N.; Aver'yanov, S.B.; Trenke, Yu.v.

Aver'yanova, L.A.; Yevdokimov, V.F.

TITLE:

The Vulcanization of Polydimethylsiloxane Rubber Using 7-Radiation 19

PERIODICAL: Kauchuk i Rezina, 1960, No. 9, pp. 5 - 15

TEXT: Vulcanizates produced by the ionizing radiation method were found to have improved properties, since the formation of transverse bonds at relatively low temperatures can be accomplished without the use of chemical vulcanizing agents (Ref. 1 - 6). The vulcanization process of polydimethylsiloxanes is accomplished according to the free-radical mechanism (Refs. 1,4,7,8,2,5,6,10, 11 - 14). The results are cited of experimental work conducted in order to increase the temperature-stability of polymethylsiloxane (KT (SKT)-based vulcanizates and to improve their physico-mechanical properties by using the radiation method of vulcanization combined with a change in the preparation of the rubber mixture and by introducing new components into the rubber composition. Co with an activity of 1,450g -equ. of radium was used as the source of the gamma-emmission. The dose was 0.28 - 0.72 Mr/h. It is pointed out that the characteristic feature of radiation vulcaniza-

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The Vulcanization of Polydimethylsiloxane Rubber Using γ -Radiation

tion appears to be the absorption energy by the filler, the possibility of further redistribution of the energy by the polymer and the filler and the formation of a chemical bond between them. Rubbers with satisfactory tensile and elastic properties could be obtained by the radiation vulcanization of SKT in combination with the introduction of various additives into the rubber mix containing χ -333 (U-333) powdered silica gel after a lengthy period of thermal aging at 300 These rubbers were found to exceed vulcanizates and those obtained earlier by the radiation method in their thermal resistance. By further refining the rubber mixture increases in the thermal resistance could be achieved. Radiation vulcantzates of polymethylsiloxane rubber filled with furnace carbon black could be produced with relatively high physico-mechanical properties and an elevated thermal resistance. The vulcanizates were current-conducting. Radiation vulcanizates of polymethylsiloxane rubber filled with powdered silica gel and furnace carbon blacks are much superior to the peroxide vulcanizates in their temperature stability. At a temperature of 200°C radiation vulcanizates of SKT rubber were obtained with considerably high physico-mechanical properties. The tensile properties of radiation vulcanizates filled with U-333 powdered silica gel could be considerably increased by introducing iron oxides or zirconium oxides into the rubber mix-

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The Vulcanization of Polymethylsiloxane Rubber Using γ -Radiation

ture, as well as by preliminary refining of the rubber mixtures increasing their homogeneity. They surpass the corresponding peroxide vulcanizates in their thermal resistance in closed systems at an elevated pressure and are characterized by their higher values of elasticity restoration after various periods of thermal aging, by their lower values of residual compression deformation at 150-200°C, by a lower weight loss during thermal aging and a somewhat higher frost-resistance. They do not differ from the peroxide vulcanizates in their dielectric properties, hardness, elasticity and tear-resistance. The authors recommend their method for the production of highly heat-resistant radiation vulcanizates of polymethylsil-oxane rubber in the manufacture of articles intended for use under conditions of long-lasting temperature effect of up to 300°C. There are 9 tables, 5 figures and 16 references: 4 Soviet, 11 English, 1 German.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka im. S.V. Lebedev (All-Union Scientific Research Institute of Synthetic Rubber im. S.V. Lebedev)

Card 3/3

S/138/60/000/007/001/010 A051/A029

AUTHORS:

Klebanskiy, A.L., Kartsev, V.N., Fomina, L.P., Trenke, Yu.V.

TITLE:

The Effect of Admixtures Present in Chloroprene on the Stability

of Nairite

PERIODICAL:

Kauchuk i Rezina, 1960, No. 7, pp. 1-3

TEXT: In the present article the authors have submitted data collected from a study of the effect of monovinylacetylene, divinylacetylene and air oxygen admixtures on the properties of nairite. In addition to this, the effects of irron salts on the polymerization process conducted in an emulsion and on the aging process were determined for salt concentrations of 0.02 - 0.2%. Although the effect of admixtures such as those investigated in the initial chloroprene monomer were previously studied and found to have the most harmful effect on the properties of rubber, for polymers of chloroprene, however, obtained by the polymerization process in an emulsion, this aspect was not sufficiently clarified. The presence of 0.1 - 0.2% monovinylacetylene admixtures in chloroprene was investigated and found not to have any effect on the nairite properties in this concen-

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The Effect of Admixtures Present in Chloroprene on the Stability of Nairite

tration. Larger amounts were not considered since they actually do not occur in the monomer (Fig. 1). As much as 0.05 - 0.2% of divinylacetylene in chloroprene decreases the plasticity of nairite and also decreases its stability during thermal aging (Fig. 2 and 3). The latter effect is explained: 1) by the participation of the admixtures in the process of copolymerization with the formation of ramified structures due to the multi-functional nature of these compounds; 2) by the activation of the oxidizing process, since it is known that the divinylacetylene admixtures activate the oxidizing processes of chloroprene with the oxygen from air. These data point to the necessity of purifying the moneyinglacetylene admixtures. The stability of nairite is also lower when it is polymerized in an air medium, and it has a greater tendency to scorching, than when polymerized in a nitrogen medium (Fig. 4). Nairite is oxidized and forms active peroxides. The amount of saponifiable chlorine increases in proportion to the amount of exygen atsorbed. The increased quantity of the saponifiable chlorine causes the polymers to undergo structuralization when being stored or processed and also causes the premature vulcanization as a result of the interaction between the metal exides

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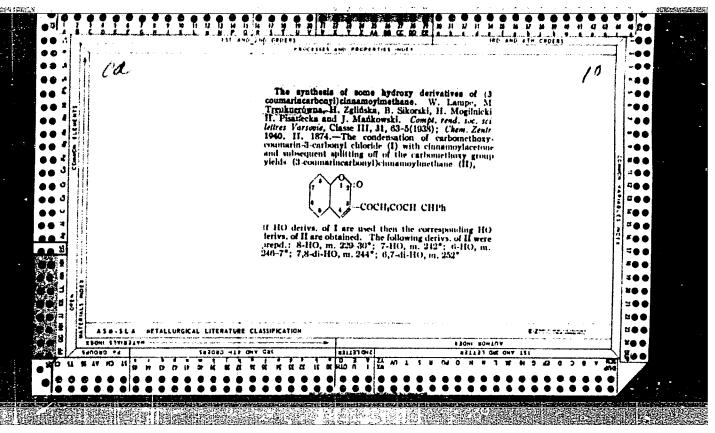
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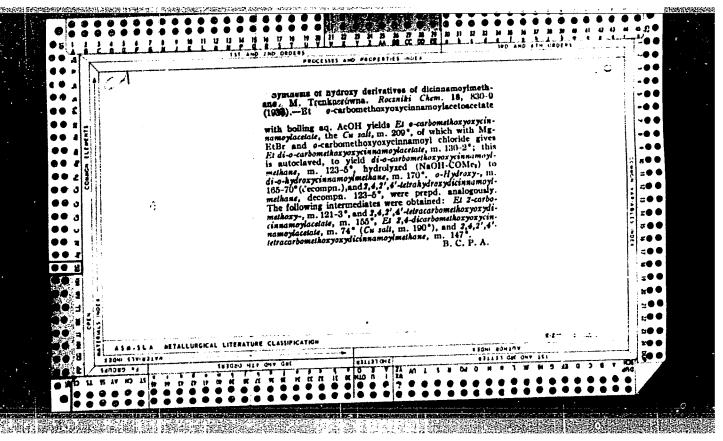
The Effect of Admixtures Present in Chloroprene on the Stability of Nairite

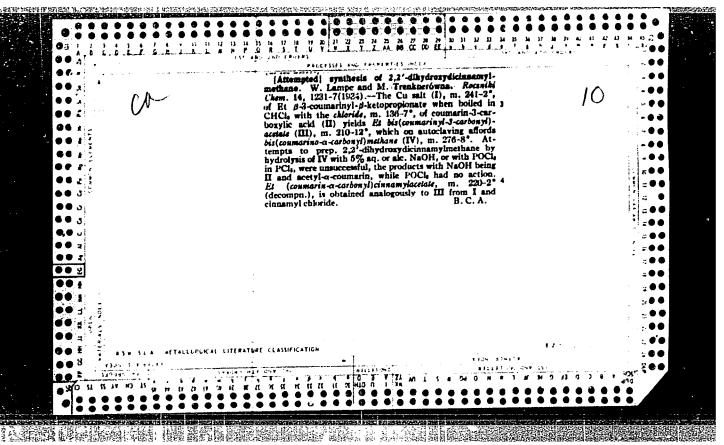
during the processing. Finally, Figure 5 shows that the presence of a 0.02 - 0.2% concentration of iron salts in chloroprene does not affect the plasticity of nairite. There are 5 graphs.

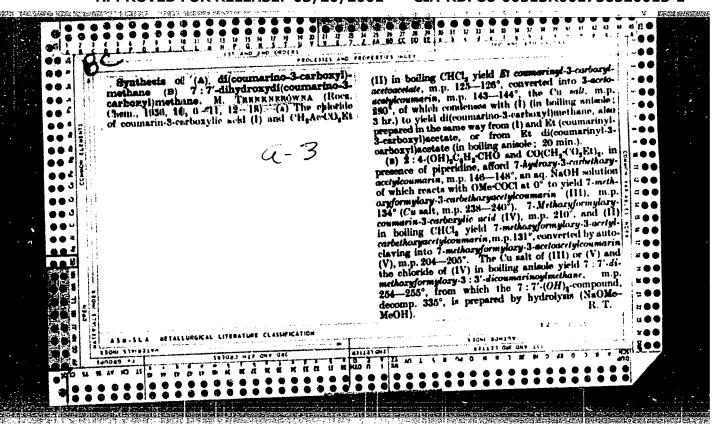
ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva (The All-Union Scientific Research Institute of Synthetic Rubber im. S.V. Lebedev)

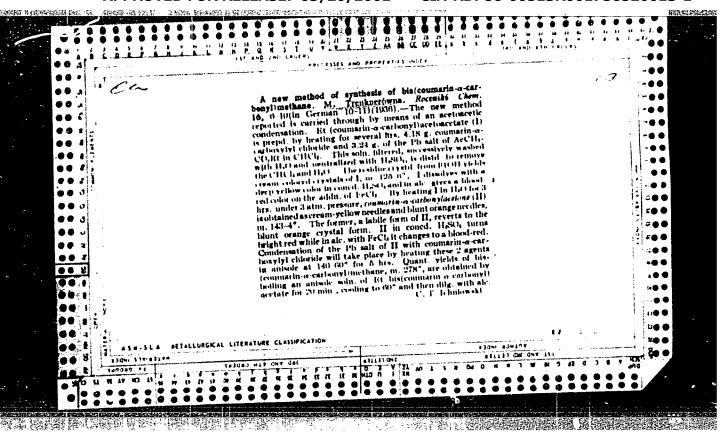
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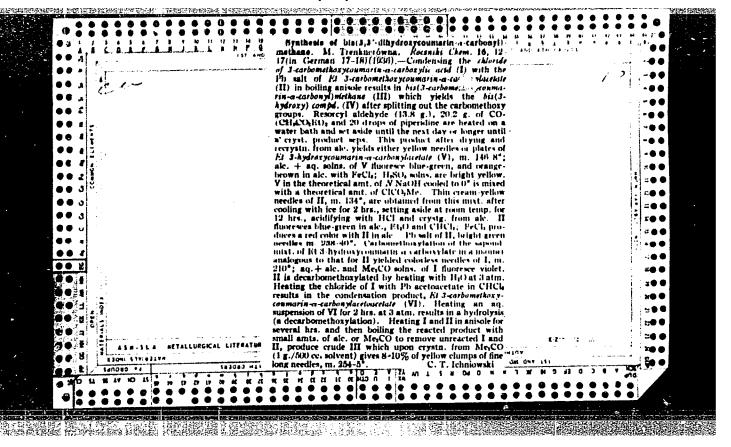


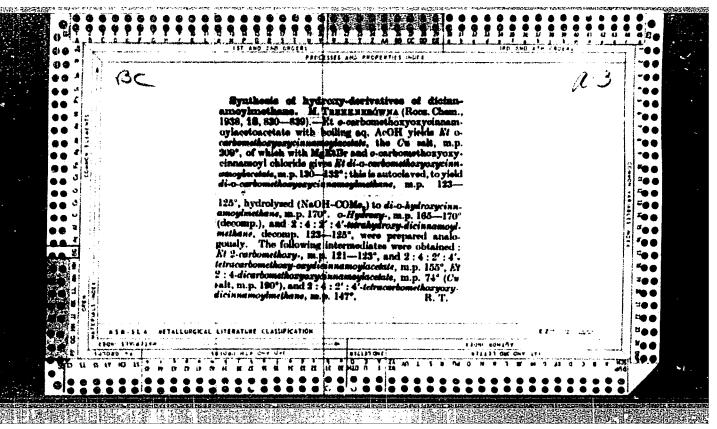


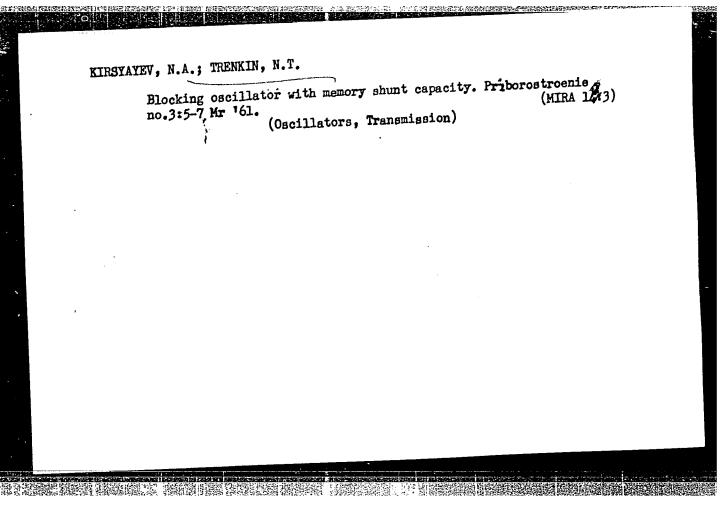












GOL'DRAUM, I.Ya.; ZAKHAROV, V.K.; TRENKIN, N.T.

Remote transmission system for special-purpose digital computers.
Priborostroenie no.10:18-21 0 '60. (MIRA 13:11)

(Electronic digital computers)

S/119/60/000/010/007/014 B012/B063

9,7000

AUTHORS:

Gol'dbaum, I. Ya., Engineer, Zakharov, V. K., Candidate

of Technical Sciences, Trenkin, N. T., Engineer

TITLE:

Telecommunication System for Special Digital Computers

PERIODICAL:

Priborostroyeniye, 1960, No. 10, pp. 18 - 21

TEXT: This is a description of a telecommunication apparatus, which is used in a system of "centralized" computation and control of financial operations. The present work was carried out at the laboratoriya avtomatiki i telemekhaniki LPI im. M. I. Kalinina (Laboratory of Automation and Telemechanics LPI imeni M. I. Kalinin) jointly with the konstruktorskoye byuro po proyektirovaniyu schetnykh mashin (Design Office for the Planning of Computers). The mode of operation of this system is illustrated by a block diagram shown in Fig. 1. Ordinary blocks of computers were used for it. Fig. 2 shows the circuit diagram of the receiving and transforming apparatus, which is then described in detail. This circuit diagram is characterized by the transformer Tp2 (Tp5) which has a fer-

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Telecommunication System for Special Digital S/119/60/000/010/007/014 B012/B063

rite with a right-angled hysteresis loop. This makes it possible to obtain pulses at the output, irrespective of the duration of action of the input voltage. The apparatus was tested at different voltages, and showed satisfactory results. Results are given in Table 1. The circuit, diagram of the telecommunication system is shown in Fig. 3, and describ. ed in brief. The circuit for the control of the communication lines is shown in Fig. 4. Here, the main element is a magnetic amplifier with a positive feedback. Its principal data are given in Table 2. The windings of the amplifier are fed from a push-pull blocking oscillator provided with triodes. This oscillator is characterized by the separation of the load circuit from the feedback circuit by means of two trans... formers. This makes it possible to avoid no-load losses and to improve efficiency. For comparison, Table 3 gives the results of a test of two blocking oscillators. Both of them correspond to the circuit diagram shown in Fig. 4, apart from the fact that the load circuit of one of them is not separated from the exciting circuit. It is found that the oscillator with two separated circuits is more profitable. There are 4 figures and 3 tables.

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TREEKOV, KH.

"Academician Ivan Buresh as bibloigrapher."

p.75 (Izvestia) Vol.7,no.7, 1956. Sofia, Bulgaria

SC: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5, May 1958

Experiment in introducing the most recent scientific achievements faster into practice. Postepy nauk roln 9 no.5:149-152 3-0 '62.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

69984 \$/020/60/131/05/12/069

16.460 () AUTHOR:

Trenogin, V.A.

TITLE: Branching Equation and Newton's Diagram

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, No. 5, pp. 1032-1035

TEXT: The author considers the equation

(1) F(x,y) = 0,

where x,y and F belong to the Banach spaces E,E1, E2. Under certain

assumptions (F(x,y)) sufficiently often differentiable according to Frechet etc.) the author obtains the branching equation of Lyapunov-Schmidt in a new manner. The kind of the derivative enables to apply the methods of the branching theory to nonlinear singular integral equations. There result immediately the theorems of V.K.Natalevich (Ref.8) on equations with a Hilbert kernel. At the same time it is proposed to apply the Newton's diagram, which often was used for the investigation of branching equation, immediately to the functional equation without setting up the branching equation. The method used by the author was already used by him in special cases (Ref.9,10). The author mentions N.N.Nazarov.

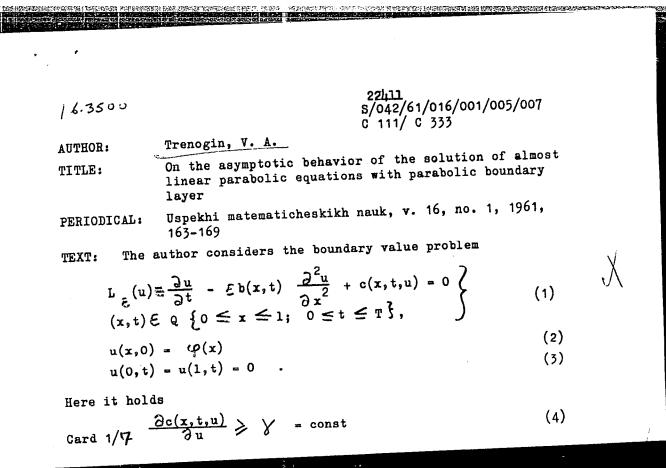
There are 10 references: 7 Soviet, 1 German and 2 American.

PRESENTED: December 3, 1959, by S.L.Sobolev, Academician

SUBMITTED: November 23, 1959

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S/042/61/016/001/005/007 C 111/ C 333

On the asymptotic behavior ...

for $(x,t,u) \in Q \times (-\infty, +\infty)$ and

$$b(x,t) \geqslant \beta = const > 0$$
 (5)

for $(x,t) \in Q$. Let $\gamma > 0$ and

$$\varphi(0) = \varphi(1) = 0 . \tag{6}$$

The functions b(x,t), c(x,t,u), $\varphi(x)$ are assumed to be sufficiently smooth.

If the solution of (1) is sought approximately in the form

$$\tilde{u}_{N} = \sum_{k=0}^{N} u_{k} \varepsilon^{k} \tag{7}$$

then one obtains the systems

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S/042/61/016/001/005/007 C 111/ C 333

On the asymptotic behavior ...

$$\frac{\partial u_0}{\partial t} + c(x, t, u_0) = 0,$$

$$u_0(x, 0) = \varphi(x),$$
(8₀)

$$\frac{\partial u_{i}}{\partial t} + \frac{\partial c(x,t,u_{0})}{\partial u} \cdot u_{i} = h_{i}(x,t,u_{0},...,u_{i-1})$$

$$u_{i}(x,0) = 0 \quad (i = 1,2,...,N)$$
(8_i)

for the determination of the u_k . The obtained solution $\bar{u}_N(x,t;\epsilon)$

does not satisfy (3) in general and can differ strongly from the solution (1) - (3) near the straight lines x = 0 and x = 1. In order to eliminate this discrepancy the author constructs functions of the "parabolic boundary layer"

$$\tilde{v}_N^0(x,t;\epsilon)$$
 and $\tilde{v}_N^1(x,t;\epsilon)$. \hat{v}_N^0 is sought with the set up

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S/042/61/016/001/005/007 C 111/ C 333

On the asymptotic behavior ...

$$\ddot{\mathbf{v}}_{N}^{o} = \sum_{i=0}^{2N+1} \mathbf{v}_{i}^{o} \varepsilon^{\frac{i}{2}}$$

(9)

If $\eta = \frac{x}{\sqrt{E}}$ is introduced, then on obtains e, g. for v_0^0 the equations

$$\frac{3v_{o}^{\circ}}{3t} - b(0,t) \frac{\partial^{2}v_{o}^{\circ}}{\partial y^{2}} + c(0,t,u_{o}(0,t) + v_{o}^{\circ}) - c(0,t,u_{o}(0,t)) = 0 \\
v_{o}^{\circ}(\gamma,0) = 0, v_{o}^{\circ}(0,t) = -u_{o}(0,t)$$
(11_o)

while the $v_{\frac{1}{2}}^{0}$ (i \neq 0) is defined by a further recurrent system.

Theorem 1: Let the conditions (4) - (6) be satisfied, and 1.) b(x,t) and c(x,t,u) possess for $(x,t,u) \in Q \times [-K,K]$ where

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APPROVED FOR RELEASE: 03/20/2001

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On the asymptotic behavior ...

$$K = \max_{\{0,1\}} | \varphi(x) | + \frac{1}{3} \max_{Q} | c(x,t,0) |$$

the derivatives

$$\frac{\partial^{i}b}{\partial x^{i}}, \frac{\partial^{i+1}b}{\partial t\partial x^{i}}, \frac{\partial^{1+m}c}{\partial t\partial x^{m_{1}}\partial u^{m_{2}}}, \frac{\partial^{m}c}{\partial x^{m}}\partial u^{m_{2}}}$$
(i=0,1,2; m=0,1,2,3).

2.) $\mathcal{P}(x)$ is continuous on [0,1].

Then: a) there exists a unique solution u(x,t;E) of (1) - (3) which is continuous in Q and which possesses continuous derivatives (occurring in (1)) in the interior of Q.

b) for $u(x,t;\xi)$ it holds the asymptotic representation

$$u(x,t;E) = u_0(x,t) + v_0^0(x,t;E) + v_0^1(x,t;E) + R_0(x,t;E)$$

where u_0 -- solution of (8_0) , v_0^0 -- solution of (11_0) , v_0^1 -- defined analogously to v_0^0 , and Card 5/7.

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s/042/61/016/001/005/007 C 111/ C 333

On the asymptotic behavior ...

$$R_0(x,t;\varepsilon) = 0 \left(\sqrt{\varepsilon \ln \frac{1}{\varepsilon}} \right) \text{ for } \varepsilon \to 0$$

is uniformly in Q,

Theorem 2: Let (4) = (6) be satisfied; let $\varphi(x)$, b(x,t), c(x,t,u) be (2n+1) = times differentiable with respect to their arguments in $Q \times [-K,K]$ Then it holds the conclusion a) of theorem 1 and the asymptotic behavior

$$u(x,t,;\xi) = \tilde{u}_{N}(x,t;\xi) + \tilde{v}_{N}^{0}(x,t;\xi) + \tilde{v}_{N}^{1}(x,t;\xi) + R_{N}(x,t;\xi),$$

where \tilde{u}_N is determined by (7) and the iterations (8₀), (8_i) \tilde{v}_N^0 and \tilde{v}_N^1 are given by (9), (11₀) and the afore-mentioned further recurrence formulas (for \tilde{v}_N^1 there hold formulas which are analogous to those for \tilde{v}_N^0), while

$$R_N(x,t; \xi) = O(\xi^{N+1})$$
 for $\xi \rightarrow 0$

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5/042/61/016/001/005/007 C 111/ C 333

On the asymptotic behavior ... is uniformly in Q.

The notion of the "parabolic boundary layer" is understood in the sense of M. J. Vishik and L. A. Lyusternik (Ref. 2: Regulyarnoye vyrozhdeniye i pogranichnyy sloy dlya lineynykh differentsial'nykh uravneniy s malym parametrom [Regular degeneration and boundary layer for linear differential equations with small parameter], UMN 12, vyp, 5 (77) (1957)), For the proof of the occurring auxiliary boundary value problems the author refers to O. A. Oleynik and T. D. Ventsel' (Ref. 9: Pervaya krayevaya zadacha i zadacha Koshi dlya kvazilineynykh

uraymeniy parabolicheskogo tipa The first boundary problem and the Cauchy problem for quasi-linear equations of parabolic type, Mat. sb. 41 (83): 1 (1957)). The author mentions Ye. P. Zhitkov and Ye. K. Isakova,

There are 8 Soviet-bloc and 2 non-Soviet-bloc references. The reference to English-language publication reads as follows: D. G. Aronson,

Linear parabolic differential equations containing a small parameter, Journ. Rat. Mech. Analysis 5, No. 6 (1956).

SUBMITTED: March 26, 1959 Card 7/7

TRENOGIN, V.A.

Existence and asymptotic behavior of the solution to the Cauchy problem for a first-order differential equation with a small parameter in Banach space. Dokl. AN SSSR 152 no.1:63-66 S 163. (MIRA 16:9)

1. Predstavleno akademikom S.L.Sobolevym.
(Boundary value problems) (Differential equations)

AUTHOR: Trenogin, V.A. SOV/42-13-4-8/11 The Ramification of the Solutions of Non-Linear Equations in the TITLE: Banach Space (Razvetvleniye resheniy nelineynykh uravneniy v banakhovom prostranstve) PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13,Nr 4,pp 197-203 (USSR) ABSTRACT: Given the equation (1) F(x,y) = 0,where x,y F(x,y) belong to the Banach spaces E_1,E and E. For $x = x_0$ be $F(x_0, y_0) = 0$. The author investigates solutions neighboring to y_0 and changing in y_0 for $x = x_0$, i.e. the author considers the continuation of the solution $\mathbf{y}_{_{\mathbf{O}}}$ with respect to the parameter x. The method of Mazarov [Ref 7,6] is transferred to this case; only a finite number of derivatives of F(x,y) is demanded. The author introduces the notion of a homogeneous operator of broken order instead of the broken power. He asserts that the expansion of the function \mathbf{x}^n with respect to these operators is unique. Furthermore, (1) is replaced, by an equivalent system (see Krasnosel'skiy [Ref 5]) and for certain values x the author gives continuations of y_0 . A theorem asserts that under Card 1/2

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The Ramification of the Solutions of Bon-Linear Equations SOV/42-13-4-8/11 in the Banach Space

certain conditions (F(x,y)) two times continuously differentiable according to Frechet etc.) the number of solutions of (1), for which $y(x_0) = y_0$ and which have a certain special form, is equal to the number of solutions of an explicitly given "ramification equation".

There are 8 references, 4 of which are Soviet, 2 German, 1 French, and 1 American.

SUBMITTED: December 22, 1956

Card 2/2

Perturbation of a linear equation by a small nonlinear term. Dokl.
AN SSSK 140 no.2:311-313 S'61. (MIRA 14:9)

1. Predstavleno akademikom I.G.Petrovskim.
(Differential equations, Linear)

TER-KRIKOROV, A.M.; TRENOGIN, V.A. (Moskva)

Existence and asymptotic behavior of "isolated wave" type solutions to a class of nonlinear elliptic equations. Mat. sbor. 62 no.3:264-274 N 163.

(MIRA 16:11)

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ARAMANOVICH, I.G.; GUTER, R.S.; LYUSTERNIK, L.A.; RAUKHVARGER, I.L.;

SKANAVI, M.I.; YANPOL'SKIY, A.R. Prinimali uchastiye:

TRENOGIN, V.A.; BITYUTSKOV, V.I.; LAPKO, A.F., red.;

KOLESNIKOVA, A.P., tekhn. red.

[Mathematical analysis; differentiation and integration] Ma-

[Mathematical analysis; differentiation and integration] Matematicheskii analiz; differentsirovanie i integrirovanie. [By] I.G.Aramanovich i dr. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 350 p. (MIRA 15:2)

(Mathematical analysis)
(Calculus, Differential) (Calculus, Integral)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

AUTHORS: Tirskiy, G. A., Trenogin, V.A. (Moscow)

TITLE: The Determination of the Temperature Field of a Gas Turbine Cooling Vane (Opredeleniye temperaturnogo polya okhlazhdayemoy lopatki gazovoy turbiny)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 2, pp 45-48 (USSR)

ABSTRACT: The problem of finding the temperature field of a thin body in the stream of hot gas, i.e. of a thin disc of a gas turbine, can be solved from one of the expressions (1.1) and (1.2), where x - coordinate along the shaft, T(x) - temperature (unknown), $S(x)\lambda(x)$ - cross-section of the shaft, $p_e(x)$ and h - perimeter and length of the shaft, $q_e(x)$ - coefficient of heat transfer from gas to the shaft, $T_e(x)$ - temperature of friction. When a cooling system is applied in the channels, the Eq (1.1) takes the form of Eq (1.3), where $p_i(x)$ - total perimeter of channels, $T_i(x)$ - cooling temperature, $q_i(x)$, T and $T_i(x)$ - coefficient of heat transfer which, in the case of free convection depends on the difference of temperatures $T - T_i(x)$. The latter relation—Card 1/6 ship determines the flow inside the channels. It is expressed

The Determination of the Temperature Field of a Gas Turbine Cooling Vane

as Eq (1.4) for free convection and as Eq (1.5) for the turbulent type of cooling (Ref 4). If Eq (1.4) or Eq (1.5) is substituted in Eq (1.3), then the formula (1.6) is obtained, which defines the problem for the conditions (1.7) and (1.8) (ξ - relative length of the shaft $\varepsilon^2 \approx 10^{-4}$). This

formula cannot be easily integrated, therefore its approximate solution is preferable. This can be based on Eq (2.1) and on the following theorems.

Theorem 1. If the following exist: (1) The function $\varphi(\xi)$ so that:

$$\psi(\xi, \varphi(\xi)) = 0 \quad ,$$

(2) The function $\phi(\xi, \theta)$ so that:

$$0\!\leqslant\!\xi\!\leqslant\!1\ ,\quad \alpha_1(\xi)\!\leqslant\!\theta-\varphi(\xi)\!\leqslant\!\alpha_2(\xi)$$

and the

Card 2/6

The Determination of the Temperature Field of a Gas Turbine Cooling Vane

continuous function $\alpha_1(\xi)$ and $\alpha_2(\xi)$ with the conditions: $\alpha_1(\xi) < 0 < \alpha_2(\xi)$

$$\varphi(0) + \alpha_1(0) < 0 < \varphi(0) + \alpha_2(0)$$

$$\varphi(1) + \alpha_1(1) < 0 < \varphi(1) + \alpha_2(1)$$

- (3) A positive continuous function $f(\xi)$ differentiated twice.
- twice, (4) A function $\phi_{\mathbf{e}}(\xi,\,\theta)\geqslant m>0$, then for the small $\epsilon>0$, a solution $\theta_{\mathbf{e}}(\xi)$ of Eq (2.1) exists which diverges to $\phi(\xi)$ for $\epsilon\to0$ in the interval $\left[\delta,\,1-\delta\right]$, where $0<\delta<1/2$. Also, if $\phi(\xi)$ can be differentiated twice, then Eq (2.2) can be defined for the conditions (2.3) and (2.4).

Card 3/6 Theorem 2. For the conditions (1) - (4) of Theorem 1 and

The Determination of the Temperature Field of a Gas Turbine Cooling Vane

for the continuous function $\varphi'(\xi)$, a solution of Eq (2.1) exists which can be verified from Eq (2.5), where p and r are determined from Eqs (2.3) and (2.4) and μ from Eq (2.6). Both theorems can be applied for finding an approximate solution. In this case the function $\varphi(\xi, \theta) = 0$ is equivalent to Eq (2.7) where $w(\xi)$ is obtained from Eq (2.8). The Eq (2.7) has a simple solution for any value of the function $w(\xi)$ which can be seen in the figure on p 47. As an example, the data at the foot of p 47 are given for the jet-type of cooled gas turbine. The value of α_i is determined from Eq (3.1), where

$$\lambda_{\text{ox}} = 0.454 \frac{\text{kcal}}{\text{m chas } C^{\text{c}}}$$
, and $\beta = 0.00292 \frac{1}{C^{\text{o}}}$

corresponding to the angular rotation 10^4 rpm and r = 27 cm. Card 4/6

The Determination of the Temperature Field of a Gas Turbine Cooling Vane

The limiting conditions are assumed as

$$\Theta(0) = 0 , \frac{d\Theta(1)}{d\xi} = 0$$

Then the approximate solution will be found from Eq (2.7) with $w(\xi)$ in this case being equal to 415 x 10^{-4} . From the graph of V = 1/3, the values of t and T are found as t = 0.086, $T = 378^{\circ}C$. The value of $|t(0) - \theta_0| = 0.086$ is found from Eq (3.2), which shows that the error of approximation is of an order of

Card 5/6

SOV/24-59-2-7/30

The Determination of the Temperature Field of a Gas Turbine Cooling

 $\xi = (\xi \sim \varepsilon = 10^{-2})$. There is 1 figure and there are 5 references, of which 4 are Soviet and 1 English. SUBMITTED: July 4, 1958.

Card 6/6

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

TREMOGIN, V.A.

Existence and asymptotic behavior of "sclitary wave" type solutions to differential equations in Banach space. Eckl. AN SSSR 156 no. 5:1033-1036 Je '64. (MIRA 17:6)

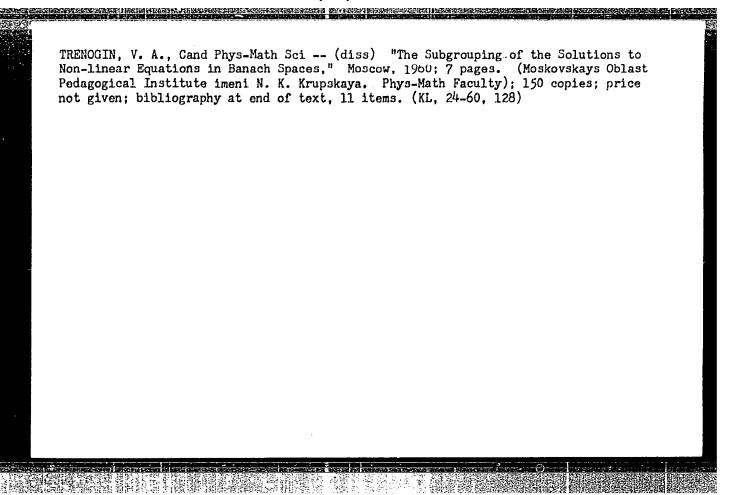
1. Mos ovskiy fiziko-tekhnicheskiy institut. Predstavleno akademikom S.L.Sobolevym.

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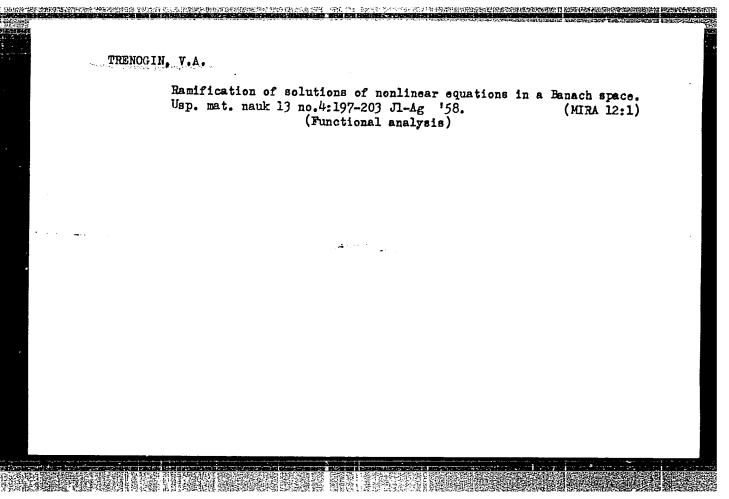
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s/0020/64/156/005/1033/1036
                                             TITLE: Existence and asymptotics of solutions of 'isolated wave' type for
                                        ACCESSION NR: APLO40944
                                           AUTHOR: Trenogin, V. A.
                                             differential equations in a Barach space
                                                  SOURCE: AN SSSR. Doklady*, v. 156, no. 5, 1964, 1033-1036
                                                    TOPIC TAGS: Jordan chain, isolated wave, second order differential equation, mathematical physics. linear operator. Banach space. differential equation.
                                                      TOPIC TAGS: Jordan chain, isolated wave, second order differential equation, mathematical physics, linear operator, formula analysis, normed vector space, Frenet formula
                                                         ABSTRACT: The problem examined in this paper describes a phenomenon which is well-known in mechanics under the name of Hisolated wave n The validity of analogous
                                                          AESTRACT: The problem examined in this paper describes a phenomenon which is well-known in mechanics under the name of "isolated wave." The validity of analogous known in mechanics under the name of "isolated wave." Barach space is established. The following nonlinear results for a second order differential equation in a Barach space is nonlinear. The semi-group theory is essentially used in this study.
                                                              results for a second order differential equation in a Banach space is established.

The semi-group theory is essentially used in this study.

The following nonlinear boundary value problem in a Banach space E was examined.
                                                                 poundary value problem in a Banach space E was examined
                                                                    Here, his a real parameter; his a closed linear unbounded operator with a domain of definition danse in R. F (1 v) is nonlinear granter operator operator of definition danse in R. F (1 v) is nonlinear operator operator.
                                                                       ners, Als a real parameter; Als a closed linear unbounded operator with a do of definition dense in E; F (A, y) is nonlinear operator operating in E, and
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                             analytic in the Frenet sense with respect to \lambda and y in which vicinity the points of conditions: (1) zero is a simple isolated for (\lambda, o) and sufficient the conditions and conditions and sufficient the conditions and conditions are conditions and conditions and conditions are conditions and conditions and conditions are conditions and conditions are conditions.
                        The problem of this study was to set conditions which would be sufficient for exists such a loss that the operator B = A - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lambda = \lambda - OF (\lambda, \omega) / \text{dy would be sufficient for some \lambda = \lam
                       exists such a \lambda_0 so that the operator B = A - \delta F (\lambda_0)/\delta Y would satisfy the rollocation corresponding zero-alement A. (2) for a solution to the equation Bv=h it is nece
                    ing conditions: (1) zero is a simple isolated eigenvalue of the operator B in a sary and sufficient that \psi(\phi)=0, where \psi is some linear functional in E, whereupon and that \psi(\phi)=0. E is factored into the simple sim
               sary and sufficient that \psi(\phi)=0, where \psi is some linear functional in E, whereupon E = E' + E \otimes -1, where E' is the null subspace of the operator E', and E \otimes -1 is its a nontrivial solution to
              range of values. Author then proves that there exists a nontrivial solution to
              Problem (1) in a space Eg and in a space E orig. art. has: 1 equation.
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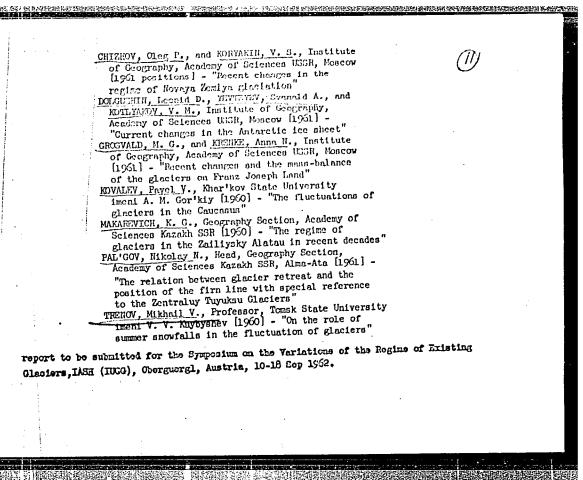
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	Ę	Figipo-technichesky institut	Issladowatys po mehaniba i prikhadnoj matemitka (Smiles in Mechanics and Applied Mathamites) Moscow, Oceocgis, 1959. 282 p. (Smiss: <u>fin</u> frudy, vpp. 3) 2,150 copies printed.	USSE. Ministeratvo vyssbego obrazovaniya.	i E. Da. Zaytsava, Dzglocer; Zd. of Pablisatog Kouse: S. D. Ankonova; Freb. Ed.: H. A. Publikova; Managing Ed.: A. S. Zaymorskova, Dagines:	DOZ: This book is intereded for scientific verbers, sugineers, and senior endants worting in the appropriate fields of science and technology.	CONTRACT: The book, the third issue of the Proceedings of the Noisonakly fisitions as makes of articles. The first half of the book economic bythose redynations as problems (articles. The first half of the book economic bythose redynations problems (bother of a heavy liquid, palculation of presence distribution along problems (bother of a heavy liquid, palculation of presence distribution along as solid of revolution) surface warms, stel. The second half of the book is deviced to the transfer of the definition of section and experimental study of the definition of a thin-valled spherical shall, plastic torsion, stel.) and to correct problems of a spile of the banks of the definition are mentioned. Because of the action after nost of the strictles:	net Salut Seconders	Macharbins, Du.k. Designing a Imperature Profile for the Wale of Maly Streamlind Murcha Body	Errethmogy, V. B. Propagation of Cylindrical Impact Stress Maws in a fine Pase Byrond the Held Point	himsteor, I., M. On the Effect of Gravity on Liection During an Dissiprousd Explosion	Mainswitch, A. L. Approximate Method of Designing a Thin-Malled Spin-rical Scali	Geogdilayre, V. O. Flastic Torsion of Anisotropia Bods	Mirro, L. V. Plastic-Clastic Duding of a Min Plate Bartened Along Its Eign	Palizorich, A. L., M <u>. G. Sharby,</u> 5s. X. Initriyem. Cartain Mg- alarities in the Romagneous Deformation of Strangthened Wetals in the Latent Tension	ilmyrority, I. Y. Son Problem of Stability by Linear Approximation for Obview of Differential Equations with Recontinuous Superfactio Mark Mass		Transin, V. A. Branching of the Solutions of Sonlinear Equations Marcal Examples.	AVALLANZE: Library of Congress			
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VAYNEERG, M.M.; TRENOGIN, V.A.

Liapunov's and Schmidt's methods in the theory of nonlinear equations and their further development. Usp.mat.nauk 17 no.2:13-75 Mr-Ap '62. (MIRA 15:12)

(Integral equations)



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Make up the arrears in the buying of potatoes. p. 5; ROLNIK SPOLDZIELCA. (Centrala Rolnicza Spoldzielni "Samopomoc Chlopska"); Vol. 8, no. 23, June 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4, No. 12, December 1955.

TRENT, K. Rolnik Spoldzielca, Vol, no. 27, July 1955 -Warsmawa
Rzeszow District has begun haymaking. p. 5.

SO: Monthly list of East European Accessions List, (EEAL), IC, Vol. 4, NO. 11 Nov. 1955, Uncl.

IVANOVA, Tamara Fedorovna; TRENTOVIUS, Mariya Eduardovna; FEDOROV, Valentin Vasil'yevich; TYUMENEVA, S.T., inzh., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Industrial apparatus for the determination of hydrogen in metals by the spectral-isotopic method] Zavodskoi variant ustanovki dlia opredeleniia vodoroda v metallakh spektral'no-izotopnym metodom. Leningrad, 1961. 18 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Kontrol' kachestva produktsii, no.2) (Metals-Hydrogen content) (Deuterium) (Spectrum analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

IVAKOVA, T.F.; TRENTOVIUS, M.B.; FEDOROV, V.V.

Use of the spectral-isotopic method of determining hydrogen. Trudy kom, anal.khim. 10:196-204 '60. (MIRA 13:8) (Deuterium)

(Deuterium)

CIA-RDP86-00513R001756520013-1 "APPROVED FOR RELEASE: 03/20/2001

SOV/48-23-9-31/57 24(7)

Ivanova, T. F., Trentovius, M. E., Fedorov, V. V. AUTHORS:

On the Problem of the Application of the Spectroscopical TITLE:

Isotope Method for the Determination of Hydrogen

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL:

Vol 23, Nr 9, pp 1120 - 1123 (USSR)

ABSTRACT: In the present paper a variant of the spectral isotope appa-

ratus described by A. N. Zaydel' and Petrov (Refs 1-4) is used.

This apparatus consists of a diffraction spectrograph of

the type DS-1, a photoelectric recording device, and a vacuum system, the principles of which are shown by figure 1, and which generates a pressure of 5.10⁻³ torr. The corrections to the data obtained by the authors and by A. N. Zaydel' are then dealt with in detail, and the measurement values obtained from ten tests are compared in table 1 for three different pressures. It was found that the correction factor increases with increasing pressure. Table 2 shows the results obtained by

the determination of hydrogen in three steel alloys. This method may be employed for the purpose of investigating the

Card 1/2 hydrogen distribution over the cross section of forged work-

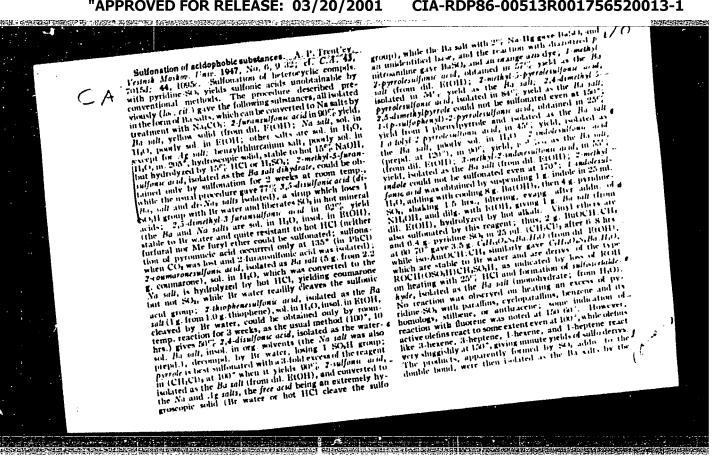
On the Problem of the Application of the Spectro- $\frac{50V}{48-23-9-31/57}$ scopical Isotope Method for the Determination of Hydrogen

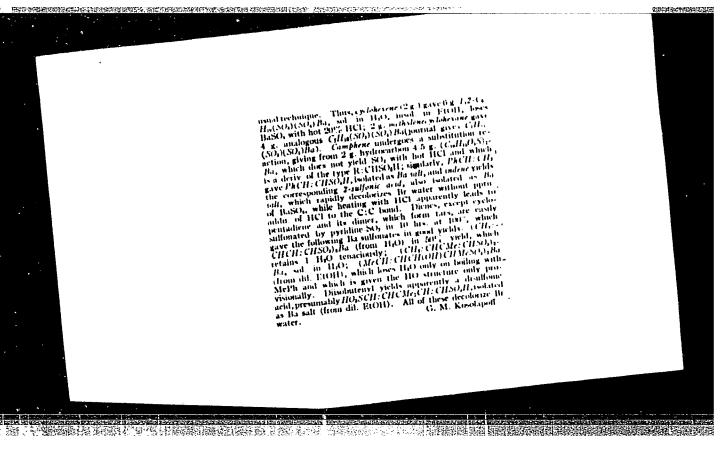
pieces of degased Cr-Ni-Mo-steels. Further, the results obtained by a comparison of the here determined hydrogen values with the plastic properties of the metal are given. The diagrams of figure 3 show the distribution of the hydrogen content depending upon—the distance between the investigated part and the surface. An increase of the hydrogen content from the periphery to the center was found. The introduction of this method in worl—laboratories meets with difficulties because of the necessary equipment with non-standardized devices, and experiments were undertaken with a view of employing this method with a standard equipment. There are 3 figures, 2 tables and 4 Soviet references.

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GERASIHOVA, M.G.; IVAHOVA, T.F.; SVENTITSKIY, M.S.; STARTSKV, G.P.;
TAGAHOV, K.I.; TRENTOVIUS, W.Z.

Spectral determination of hydrogen in metals. Isv.AN SSSR,Ser fiz.
19 no.2:147-148 Mr-Ap '55.

(Tartu--Spectrum analysis--Congresses)

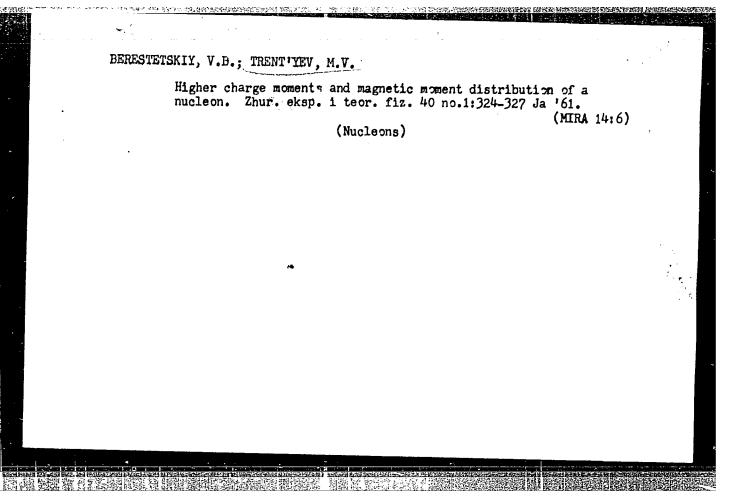
(MIRA 9:1)

BELASH, F.N., prof., doktor tekhn. nauk; PUGINA, O.V., starshiy nauchnyy sotrudnik; TRENTOVSKIY, G.F., inzh.; ARTEMOVA, A.A., inzh.; PRITSKO, T.N., inzh.

Pilot plant testing of the flotation of tailings from the magnetic separation of iron quartzites at the Southern Mining and Ore Dressing Combine. Sbor. nauch. trud. KGRI no.17:39-51 *63. (MIRA 17:1)

1. Yuzhnyy gornoobogatitel'nyy kombinat.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"



TRENT'YEV, V.M.; STASENKO, N.N.; PETROVICH, Zh.I.

Duration of regeneration and transformation dynamics of hemicelluloses in the barley stem. Biul. Inst. boil. AN BSSR no.5:149-156 160. (MIRA 14:7) (BARLEY)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

BECKER HELDE HELDE

TRENZ, Frantisek

Some remarks to the determination of glass resistance to alkalies according to the Czechoslovak standard 70 0533.
Sklar a keramik 12 no.2:51-55 F '62.

1. Statni vyskumny ustav sklarsky, Hradec Kralove.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

HERDEGEN, L TRENY, Z.; STICHENWIRTHOVA, B.

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Significance of inflammation of the basal lung segments in the development of bronchiectasis in children. Ceak. pediat. 8 no.6: 488-495 5 July 58.

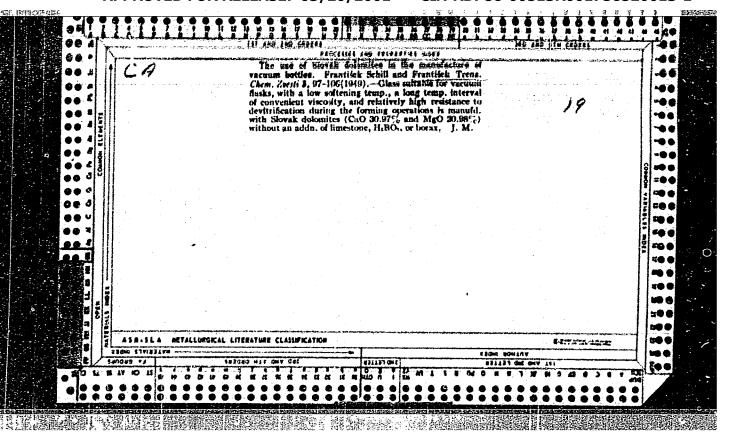
1. Iaborator pro detskou pneumologii a IV. detska klinika KU v Praze, prednosta prof. Dr. F. Blazek.

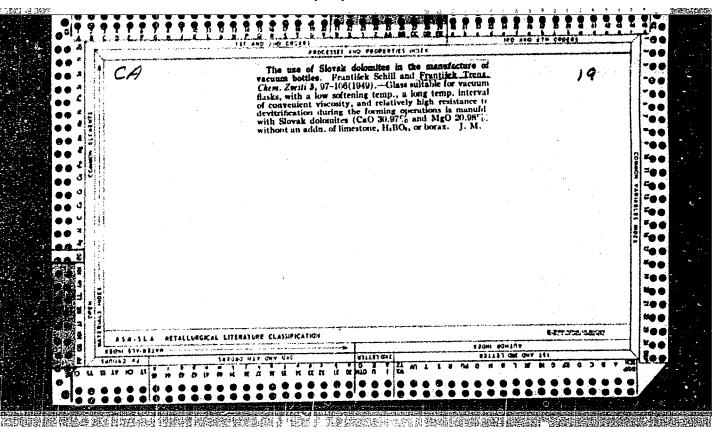
(PNEUMONIA, IOBAR, in inf. & child causing bronchiectasis (Cz))

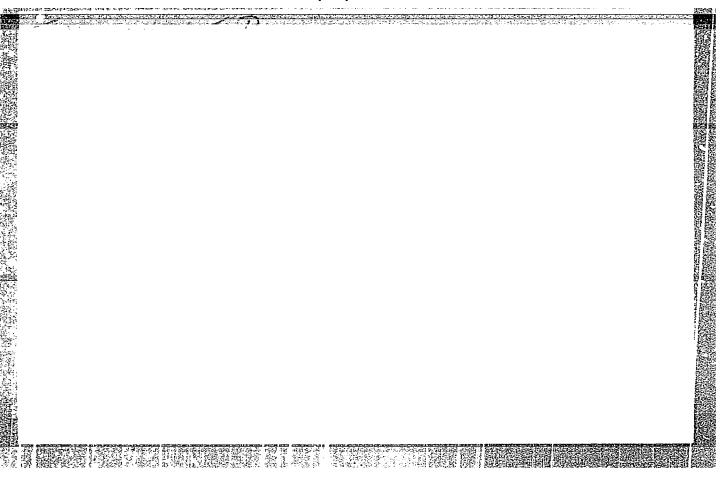
(BRONCHIECTASIS, in inf. & child caused by lobar pneumonia (Cz))

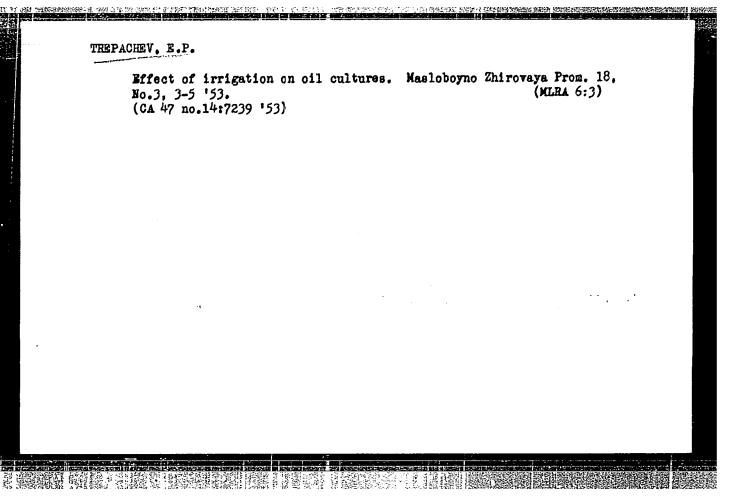
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TREPACHEV, I.V.; CHIGIRIK, Ye.D.

Possibility of using still residues, waste products in the production of dichloroethane, for combatting preimaginal stages of files; author's abstract. Zh. Mikrobiol. 40 no.7: 19 Jl. 63 (MIRA 17:1)

1. Iz Kemerovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

The POR-1 sampler for drilling fluids. Razved. i okh.nedr 24 no.1:52 Ja '58. (MIRA 11:4) 1. Trest "Rostovuglegeologiya." (Boring--Equipment and supplies)

TREPACHEY,

AUTHOR:

Trepachev, V.S.

132-1-11/15

THE CHARGE SECTION OF THE PROPERTY OF THE PROP

TITLE:

Sampling Device " NTP-1 " For Flushing Liquids

(Probootbornik dlya promyvochnykh zhidkostey " NFP-1 "

PERIODICAL:

Razvedka i Okhrana Nedr, 1958, # 1, pp 52 (USSR)

ABSTRACT:

The trest "Rostovuglegeologiya" introduced the above mentioned simple device, designed for taking samples of flushing liquid from the reservoirs of drill towers, clay stations and tank cars. This device is of very simple design,

and can be made in the mechanical shops of geological

prospecting teams.

There is one figure.

ASSOCIATION: Trest Rostovuglegeologiya

Available:

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CIA-RDP86-00513R001756520013-1" APPROVED FOR RELEASE: 03/20/2001

TREPACHEV, Ye.P., kand. sel'khoz. nauk; MINENKOVA, V.R., red.;
TRUKHINA, O.N., tekhn. red.

[Corn as a monocultural crop] Kukuruza na postoiannykh
poliakh. Moskva, Sel'khozizdat, 1963. 85 p.
(MIRA 17:3)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

TREPACHEV, Ye.P., kandidat sel'skokhozyaystvennykh nauk.

Content and properties of oil from seeds of different varieties of seed flax. Masl.-zhir.prom. 19 no.3:4-6 '54. (MEA 7:6)

1. Goskomissiya po sortoispytaniyu sel'skokhozyaystvennykh nauk. (Flax) (Oils and fats)

DRAKIN, S.I.; SERGEYEVA, T.N.; TREMAKOV, A.I.

Chemical interaction and electrodiffusion in liquid scdium alloys. Zhur. fiz. khim. 38 no.2:321-324 F 164.

(MIRA 17:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva, Moskva.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

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"K voprosu o chastote i nekotorykh prichinakh vozniknobeniya porokov razvitiya u novorozhdennykh."

TREPAKOV, Ye. A.

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences Moscow, 3-10 Aug 64.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520013-1"

TREPACHEV, Ye. P.; LATYPOV, A. G.

Millet

Chemical composition of some varieties of foxtail millet. Korm baza 3, no. 9, 1952.

Monthly List of Gussain Accessions, Library of Congress, December 1952. Unclassified.

TREPACHEV, YE. P.

Sudan Grass

Chemical properties of the hay of certain varieties of Sudan Grass. Sel. i sem. 19 No. 7 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953, Unclassified.

TREPACHEV, YE. P.

Sunflowers

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Stabilized power supply unit for transistorized electric simulating system. Vop. rasch. i konstr. elektron. vych. mash. no.1:132-141
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(MIRA 14:1)

(Electric power supply for apparatus)

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TREPAKOV, Ye.A. (Moscow)

Contraceptives and their use. Fel'd i akush. 23 no.5:32-37 ky'58

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(GONCEPTION--FREVENTION)

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TREPELKOV, V., kand.ekonomicheskikh nauk

The sources of national income. Komm.Vooruzh.Sil 2 no.13:
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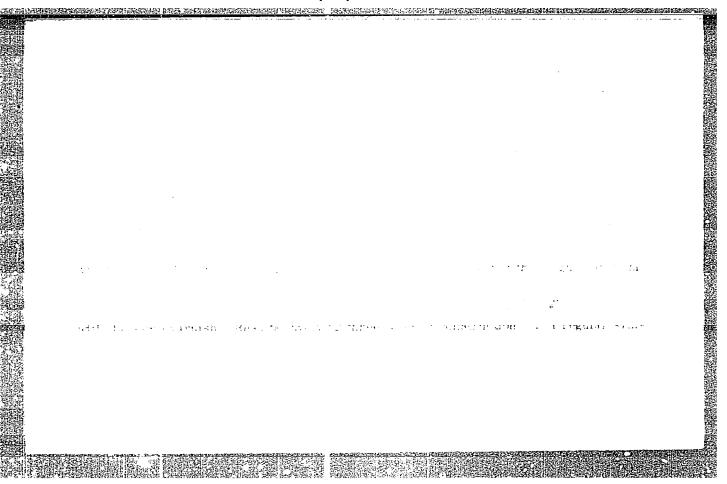
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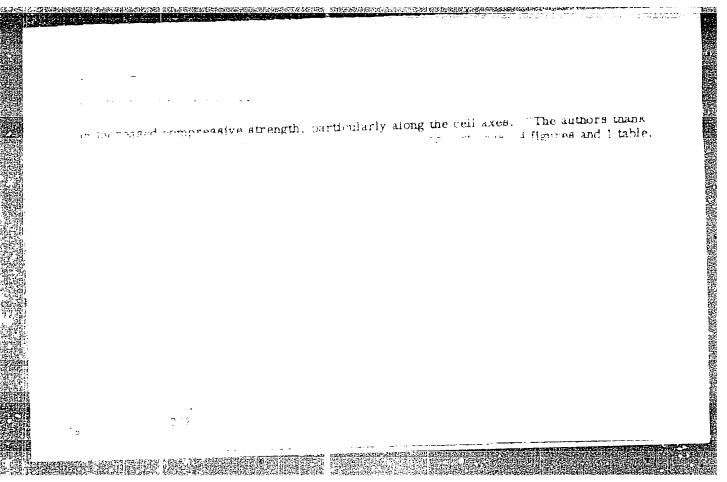
Investigating the resistance to fungi of the acoustical materials based on polyvinyl chloride resins. Plast. massy no.2:68-69 '64. (MIRA 17:8)

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TRAKHTER, A.S.; TREPELKOVA, L.I.; PALEY, M.I.

Cold-hardening adhesive for gluing polyvinylchloride plastics
to themselves and to other materials. Plast.massy no.8:64-67
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